

Fig. S1 The interval plot comprising the oxygen saturation (mean  $\pm$  95% CI) measured with the pulse oximeter from the fingertip of the female and male subjects, respectively.

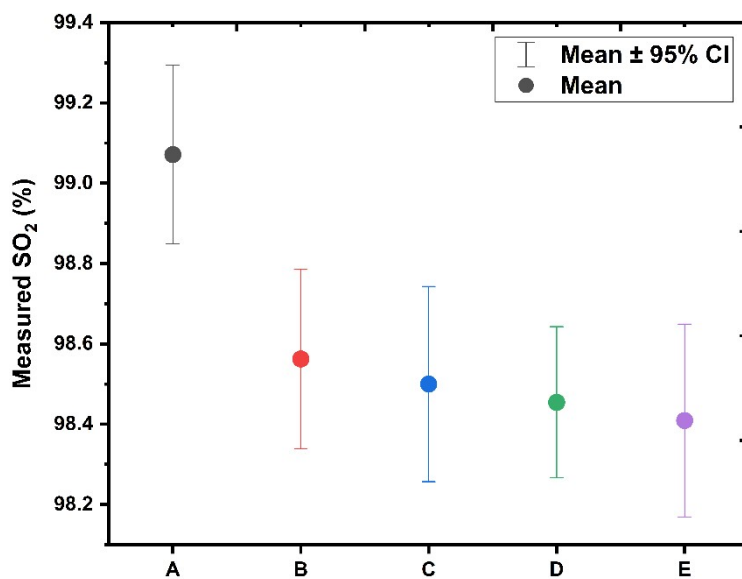


Fig. S2 The interval plot comprising the oxygen saturation (mean  $\pm$  95% CI) measured with the pulse oximeter from the fingertip of the different age groups.

**Table S1.** Dunn's multiple comparison post-hoc test statistics for age-wise study of  $\Delta$ RHb,  $\Delta$ HbO<sub>2</sub> and  $\Delta$ SO<sub>2</sub> (A=20-24 years, B= 25-29 years, C= 30-34 years, D= 35-39 years and E= above 40 years).

Age-group Pairs	For $\Delta$ RHb				For $\Delta$ HbO <sub>2</sub>				For $\Delta$ SO <sub>2</sub>			
	Mean rank diff	Z	prob	Sig*	Mean rank diff	Z	prob	Sig*	Mean rank diff	Z	prob	Sig*
AB	-6.11	-0.67	1.08E-8	1	2.20	0.24	2.18E-7	1	-2.58	-0.28	0.585	0
AC	-17.23	-1.81	1.66E-7	1	21.88	2.30	1.81E-8	1	24.27	2.33	0.021	1
AD	-27.04	-2.77	3.81E-6	1	25.86	2.65	9.08E-6	1	25.28	2.66	0.032	1
AE	-42.19	-5.76	8.01E-8	1	42.04	5.74	9.04E-8	1	41.18	3.73	0.001	1
BC	-11.13	-1.07	2.06E-4	1	19.67	1.89	4.56E-6	1	26.85	3.17	0.015	1
BD	-20.94	-1.96	5.01E-4	1	23.65	2.22	3.55E-9	1	27.86	3.81	0.001	1
BE	-36.08	-4.26	2.05E-4	1	39.83	4.71	2.15E-5	1	43.47	4.74	2.11E-5	1
CD	-9.81	-0.88	3.63E-6	1	3.97	0.36	0.003	1	1.01	0.11	0.571	0
CE	-24.95	-2.79	5.37E-7	1	20.15	2.25	1.59E-5	1	16.91	1.58	5.66E-7	1
DE	-15.14	-1.64	7.50E-5	1	16.17	1.75	3.48E-6	1	15.90	1.63	3.02E-7	1

Sig\*: 1 indicates that the difference of the means is significant at the 0.05 level.

0 indicate that the difference of the means is NOT significant at the 0.05 level.